

What is claimed is:

1. A pole reinforcing element comprising:
oppositely disposed geometric channels; and
a web extending between and connecting to said oppositely disposed geometric channels,
said web and said geometric channels being two to five meters in length and formed from a material
having a thickness in the range of 3 mm to 12 mm.
2. The pole reinforcing element of claim 1, wherein the shape of the oppositely disposed
geometric channels is cylindrical.
3. The pole reinforcing element of claim 1, wherein the shape of the oppositely disposed
geometric channels is rectangular.
4. The pole reinforcing element of claim 1, wherein the shape of the oppositely disposed
geometric channels is triangular.
5. The pole reinforcing element of claim 1, wherein the web extends from a top of the
geometric channels to a mid point above a base of said geometric channels.
6. The pole reinforcing element of claim 1 wherein the web connects to the geometric channels
in a plane bisecting the center of the geometric channels.
7. The pole reinforcing element of claim 1 wherein the web connects to the geometric channels
in a plane offset from the center of the geometric channels.
8. The pole reinforcing element of claim 1 wherein the web connects to the geometric channels
at a point tangential to the geometric channels.
9. The pole reinforcing element of claim 1 wherein the thickness of the material of the web is
not equal to the thickness of the material of the geometric channels.
10. The pole reinforcing element of claim 4 wherein the rectangular shaped geometric channel is
partially open at one of its vertices.
11. The pole reinforcing element of claim 1 wherein said web has a width in the range of 10 cm
to 25 cm.
12. The pole reinforcing element of claim 9 wherein said geometric channels have a width in the
range of between 6 cm to 15 cm.
13. The pole reinforcing element of claim 1 wherein said geometric channels have a width in the
range of between 6 cm to 15 cm.
14. The pole reinforcing element of claim 1 wherein said geometric channels have a length in the
range of 2 meters to 5 meters.

15. The pole reinforcing element of claim 1 wherein said geometric channels have a length in the range of 2.4 meters to 2.7 meters.

16. The pole reinforcing element of claim 12 wherein said web has a length in the range of 2 meters to 5 meters.

17. A pole reinforcing element comprising:

oppositely disposed hollow geometric channels two to five meters in length formed from structural steel having a shape selected from the group consisting of round, oval, square, rectangle and triangle; and

a web extending between and connecting to said oppositely disposed geometric channels, said web being two to five meters in length.

18. A method of reinforcing a utility pole comprising:

providing a utility pole reinforcing element having oppositely disposed hollow geometric channels two to five meters in length formed from structural steel having a shape selected from the group consisting of round, oval, square, rectangle and triangle and a web extending between and connecting to said oppositely disposed geometric channels, said web being two to five meters in length;

driving said utility pole reinforcing element into the ground leaving at least a portion of the pole reinforcing element extending above the ground proximate the utility pole; and

securing said pole reinforcing element to said utility pole with at least one strap, bolt or similar securement element.